

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A non-storage type broadcasting system for providing one or more services composed of a content in real-time for viewing by a user and providing a user interface unique to each service, the system comprising:

a transmission means for sending out a control content, which implements the user interface, as a part or a whole of a content; and

a reception means for receiving the sent control content and activating the received control content to execute the user interface,

wherein the user interface is transmitted/received as the content.

wherein said transmission means includes:

a content header addition means for adding, to the content, a content header which defines details of the content; an

a content transmission means for sending out the control content and the content, both of which are in the same format.

Claim 2 (Previously Presented) The non-storage type broadcasting system according to claim 1, wherein the control content is a browser for the content.

Claim 3 (Currently Amended) The non-storage type broadcasting system according to claim 1,

wherein said transmission means includes:

a content sending means for sending out the content containing the control content; and

a service attribute information sending means for sending out service attribute information indicating details of the services,

wherein said reception means includes a control content identification means for identifying the control content from among received content based on the received content and the service attribute information.

Claim 4 (Canceled)

Claim 5 (Previously Amended) The non-storage type broadcasting system according to claim 3,

wherein said transmission means further includes an electronic signature means for applying an electronic signature to the control content,

wherein said service attribute information sending means sends out a public key of the electronic signature in the service attribute information,

wherein said reception means further includes a signature authentication means for authenticating the electronic signature with the public key contained in received service attribute information, and

wherein the control content is identified by authenticating the electronic signature.

Claim 6 (Previously Presented) The non-storage type broadcasting system according to claim 5, wherein the authentication by the electronic signature is performed using a key independent of each service.

Claim 7 (Previously Presented) The non-storage type broadcasting system according to claim 3,

wherein said content sending means further includes a content ID space management means for sending out information which defines a partial space of an ID space of the content, and

wherein said reception means further includes an identification means for identifying the control content based on whether a content ID falls within the partial space.

Claim 8 (Currently Amended) A control content transmission method for use in a non-storage type broadcasting system for providing one or more services composed of a content in real-time for viewing by a user, the method providing a user interface unique to each service, the method comprising:

a step of sending out a control content, which implements the user interface , as a part or a whole of the content; and

a step (S501-S505) of receiving the sent control content and activating the received control content to execute the user interface, interface.

wherein the step of sending out the control content includes:

a content header addition step of adding, to the content, a content header which defines details of the content; and

a content sending step of sending out the control content and the content, both of which are in the same format.

Claim 9 (Previously Presented) The control content transmission method according to claim 8, wherein the control content is a browser for the content.

Claim 10 (Currently Amended) The control content transmission method according to claim 8,

wherein the step of sending out further includes:

a content sending step of sending out a content containing the control content;
and

a service attribute information sending step of sending out service attribute information indicating details of the services, and

wherein the reception step includes a control content identification step of identifying the control content from among received content based on the received content and the service attribute information.

Claim 11 (Canceled)

Claim 12 (Previously Presented) The control content transmission method according to claim 10,

wherein the step of sending out further includes an electronic signature step of applying an electronic signature to the control content,

wherein the service attribute information sending step further includes a service attribute information sending step of sending out a public key of the electronic signature in the service attribute information, and

wherein the reception step further includes:

a signature authentication step of authenticating the electronic signature with the public key contained in received service attribute information ; and

a step of identifying the control content by authenticating the electronic signature.

Claim 13 (Previously Presented) The control content transmission method according to claim 12, wherein the authentication by the electronic signature is performed using a key independent of each service.

Claim 14 (Previously presented) The control content transmission method according to claim 10,

wherein the content sending step further includes a content ID space management step of sending out information which defines a partial space of an ID space of the content, and

wherein the reception step further includes an identification step of identifying the control content based on whether a content ID falls within the partial space.

Claim 15 (Currently Amended) A reception device for use in a non-storage type broadcasting system for providing one or more services composed of a content in real-time for viewing by a user and providing a user interface unique to each service, the reception device receiving a control content which implements the user interface, the content having added a content header which defines details of the content, the control content being transmitted as a part or a whole of in the same format as the content and having added thereto service attribute information indicating details of the services, the reception device comprising:

a reception means for receiving content transmitted from the transmitter ;

an extraction means for demodulating the received content and extracting the content header and the content and the service attribute information; and
a control content identification means for identifying the control content from among the received content based on the extracted content header; and the service attribute information.
an executing means for activating the control content and executing the user interface.

Claim 16 (Currently Amended) The reception device according to claim 15,
wherein in the non-storage type broadcasting system, the content is transmitted after being further added with a content header which defines details of the content, a service attribute information indicating details of the service.
wherein said extraction means further extracts the service attribute information content header from the received content, and
wherein said control content identification means identifies the control content from among the received content based on the extracted service attribute information content header.

Claim 17 (Previously Presented) The reception device according to claim 15,
wherein in the non-storage type broadcasting system, the control content is signed with an electronic signature, and a public key of the electronic signature is sent out in the service attribute information ,
wherein said reception device further includes a signature authentication means for authenticating the electronic signature with the public key contained in received service attribute information, and
wherein said control content identification means identifies the control content by authenticating the electronic signature.

Claim 18 (Previously Presented) The reception device according to claim 17, wherein the authentication by the electronic signature is performed using a key independent of each service.

Claim 19 (Previously Presented) The reception device according to claim 15,

wherein in the non-storage type broadcasting system, the content is added with information which defines a partial space of an ID space of the content, and

wherein said identification means further identifies the control content based on whether a content ID falls within the partial space.